VME Intensity Monitor - Task #16023

Configure R:TOR703 for g-2 operation

03/29/2017 09:21 PM - John Diamond

Status:	Assigned	**Start date:**	03/29/2017
Priority:	Normal	**Due date:**	
Assignee:	John Diamond	**% Done:**	70%
Category:	Deploy & Config	**Estimated time:**	2.00 hours
Target version:		**Spent time:**	2.75 hours

Description

Configure S60TOR / R:TOR703 to operate with ABC03 firmware ADC

History

#1 - 03/29/2017 09:22 PM - John Diamond

E-mail from Aisha:

```
With the new firmware, please have the front end set the following registers at startup.
There will be no need for the averaging and current readouts as well as the dynamic gate width.

(SYNC_OUT mode) 0x115 = x0
(GateWidth , 12us) 0x2BA = x5DC
(#of RawSamples) 0x20C = x4000
(2^# = DecRate) 0x2B4 = x0
(#of AvgSamples) 0x2B7 = x4000
(SYNC delay) 0x2C0 = x0
```

#2 - 03/29/2017 09:53 PM - John Diamond

Configured ADC according to Aisha's request.
Did not deploy because it appears to me that Ning has not deployed the latest PXIE firmware to S60TOR yet.
Did not configure injection sums and cycle devices yet.

#3 - 04/02/2017 11:04 AM - John Diamond

Ning deployed the new firmware on Friday. Deployed my new startup script and latest VMEInt build to S60TOR on Sunday.

Implemented a command in VMEIntCommandsADC for setting the raw sample size.

Verified the list of registers are being set properly with one excepetion:

I think Aisha got 0x2b4 and 0x2b7 reversed. For now I have them configured as:

- 0x2b4 = 0x4000
- 0x2b7 = 0x0

Will confirm with her on Monday.

#4 - 04/02/2017 11:42 AM - John Diamond

- % Done changed from 0 to 70

Switched the R:TOR703 ACNET device reading property to use the filter chain device ID (0xb0).